Semi-Annual Index of Technical And Semi-Technical Refinery Articles

July-December, 1932

	Issue and Page Number
Asphalt, Road Oils, Road Materials	
Two-stage distillation of asphalt handled in single furnace	July 27, p. 26
Road Oils; specifications a problem; costs, Part IV, by Dr. George M. Mullins	Aug. 10, p. 25
Asphalt manufacture from non-asphaltic crude, by Dr. J. Hausman	Sept. 7, p. 26
Useless road oil specifications eliminated by Road Oil Congress, by Arch L. Foster	Oct. 19, p. 27
Cracking	
Clean recirculation issue in Dubbs-Winkler-Koch suit	July 13, p. 15
Royalty rates, ten years ago and now	July 13, p. 34
Radical changes in design show new era in liquid phase cracking, Art. I, by Arch L. Foster	July 27, p. 29
Derby Oil operating revamped twin Dubbs units	Aug. 10, p. 52
Solution of problems bringing vapor phase cracking forward, Art. 2, by Arch L. Foster	Aug. 17, p. 26
New German telescope permits study of inside tube walls, by Carl Zeiss	Nov. 16, p. 24
Progress in vapor phase cracking and reforming, by Arch L. Foster	Nov. 16, p. 27
Device for measuring internal wear of cracking tubes, by J. A. McMonagle, C. A. Pines and J. F. Williams	Nov. 16, p. 49
Detonation, Knock Rating and Knock Testing	
Electric ear tests Tydol gasoline knock rating	July 6, p. 34
Road knock tests made by C. F. R. Detonation Committee	Aug. 31, p. 21
No end to octane race, Thomas Midgley tells N. P. A. meeting	Sept. 21, p. 15
Effect of increasing octane number on motor fuel performance, by W. V. Hanley	Sept. 21, p. 27
Modified knock test method meets less opposition among western refiners, by Arch L. Foster	Sept. 28, p. 25
Ethyl Gasoline Corp. suggests blending at station	Oct. 5, p. 20
C. F. R. knock test method modified after Uniontown, Pa. road tests	Oct. 5, p. 23
C. F. R. octane number testing methods postponed to April 1	Nov. 23, p. 11
Knock rating of gasolines may be estimated from analysis, by A. W. Trusty	Dec. 21, p. 29
Distillation	
Patents of Atlantic Refining, S. O. Indiana and New Jersey and Foster Wheeler pooled	July 13, p. 32
Two-stage distillation of asphalt handled in one furnace	July 27, p. 26
Many streams at Garber plant give flexibility, by Arch L. Foster	Oct. 26, p. 28
Rectification, application to straight-run gasoline, by W. L. Rifenberick	Aug. 3, p. 25
New rotary type plate improves vacuum fractionating column, by D. B. Keyes	Nov. 9, p. 22
Hydrogenation	
Hydro Patents Co. completes co-operative control of hydrogenation	Aug. 3, p. 18
Standard of New Jersey selling hydrogenated motor oil, Essolube	Aug. 17, p. 15
Commercial and technical progress, by P. J. Byrne, E. J. Gohr and R. T. Haslam	Oct. 5, p. 27
Lubricants and Lubrication	
New viscosity equivalents to be published for Engler, Redwood and Saybolt	Aug. 3, p. 34
Woodite clay for decolorizing lubricating oils, properties and application, by E. R. Lederer and E. W. Zublin	Aug. 31, p. 27
Modern refining methods; lubricating oil manufacture by Arch L. Foster, Article I	Aug. 31, p. 36
Article II	Sept. 14, p. 27
Article III	Sept. 28, p. 29
Lubrication requirements of modern cars, by L. C. Eldridge	Aug. 21, p. 45
Freedom lube plant cuts costs with mechanical conveyors by J. C. Chatfield	Sept. 14, p. 29
Correct lubrication protects old auto investment, by Ralph R. Matthews	Sept. 21, p. 46
Paper filtration solves oil clarification at Sinclair plant, by Arch L. Foster	Oct. 12, p. 30
Methods of testing low pressure characteristics of oils and greases, by E. F. Bittner	Oct. 19, p. 31
Gear changes await extreme pressure lubes, by H. C. Mougey and H. R. Wolf	Nov. 16, p. 39
Extreme pressure lubes; laboratory data on load-carrying capacity, corrosion, etc., by O. L. Maag	Nov. 16, p. 53
New synthetic oils, resistance to sludging, extreme long life, by D. P. Barnard	Nov. 16, p. 62
New solvent methods of lube manufacturer, by Arch L. Foster	Nov. 23, p. 22
Upper cylinder lubricant mixed with gasoline by S. O. Ohio, Pure Oil	Nov. 23, p. 48
Nitrobenzene extraction process makes highly paraffinic lubricants, by S. W. Ferris and W. F. Houghton	Nov. 30, p. 25
The effect of Paraflow on wax crystal structure, by G. H. B. Davis	Dec. 28, p. 32
Motor and Other Fuels (See also Detonation, Knock Rating and Testing)	
Diesel engine fuels talked at S. A. E. meeting	July 6, p. 33
Gum formation in gasoline prevented by new inhibitors, Rogers and Voorhees	Aug. 24, p. 20
Low manifold temperature minimized gum trouble, by S. P. Marley, W. P. Ridenour, and W. A. Gruse	Nov. 2, p. 22
Lubricated gasoline sold by S. O. Ohio and Pure Oil	Nov. 23, p. 48
Results of bulk-station blending of refined and natural gasolines	Nov. 23, p. 23
Motor fuel quality; a complex problem, by George Granger Brown Part I	Dec. 14, p. 43
Part II	Dec. 21, p. 37
Natural Gasoline	
Solution of natural gasoline problem requires volatility control, by Arch L. Foster	July 6, p. 27

N. P. N. Semi-Annual Index of Technical and Semi-Technical Refinery Articles

	Issue and Page Number
Natural gasoline pipeline transportation taxable	Aug. 3, p. 19
Natural gasoline tax question deadlocked	Aug. 17, p. 18
Keeping absorption oil clean, by H. C. Webb	Aug. 17, p. 32
Bureau of Internal Revenue rules tax on natural gasoline run from plant to railroad	Oct. 12, p. 14
Typical results from bulk-station blending of refined and natural gasoline	Nov. 23, p. 23
Lime for removing H_2S from gas	July 20, p. 30
Natural gasoline is mutual problem of refiner and manufacturer, by Arch L. Foster	Dec. 21, p. 26
Oil Treatment (See also Lubricants and Lubrication)	
Lime for removing H_2S from gas; treating plant diagram	July 20, p. 30
Research and experimental work on light oil treatment, by Arch L. Foster	Aug. 10, p. 52
Lachman treating process explained	Aug. 17, p. 43
Lachman zinc chloride treating process, Winkler-Koch to handle	Nov. 9, p. 62
Laboratory apparatus for continuous acid treatment of light oils, by E. W. Zublin	Nov. 16, p. 37
Plant Control and Modernization (See also Cracking)	
Vapor rectification type vapor recovery plants, theory and practice, by Paul M. Raigorodsky and Norman K. Rector	Aug. 24, p. 29
Atlantic Refining expenditures make plant operations profitable	Aug. 31, p. 21
Sinclair pushes $20,000,000 refinery modernization program	Sept. 7, p. 16
General Petroleum plans modernization program	Sept. 28, p. 21
Many streams at Garber plant give flexibility, by Arch L. Foster	Oct. 26, p. 28
Richfield Oil to spend $586,000 for replacements	Oct. 26, p. 69
Chemistry, engineering, special alloys, bring rapid developments, by Arch L. Foster	Nov. 16, p. 26
Low chrome steels solve worst refinery problems, by George W. Johnson	Nov. 16, p. 29
Modern alloys; their application to refinery problems, by Arch L. Foster, Article I	Nov. 16, p. 45
Article II	Dec. 7, p. 27
Increasing condenser efficiency through production of turbulent flow, by B. T. du Pont	Nov. 16, p. 74
Sinclair refinery fires boilers with coke	Nov. 16, p. 72
Cosden Oil spends $300,000 in rehabilitation	Nov. 23, p. 11
$6,000,000 modernization program launched by Associated Oil Co.	Dec. 7, p. 24
Refining, General Processes and Products:	
Still losses; high gas velocities build up losses, by Gerrit Van den Berg	July 20, p. 26
Rectification, application to straight-run gasoline, by W. L. Rifenberick	Aug. 3, p. 25
Lachman treating process explained	Aug. 17, p. 43
Gum formation in gasoline prevented by new inhibitors, Rogers and Voorhees	Aug. 24, p. 20
Vapor recovery plants; vapor rectification type, theory and practice, by Paul M. Raigorodsky and Norman K. Rector	Aug. 24, p. 29
Scientific development to revive chemical industries, by J. B. Aug. Kessler	Oct. 26, p. 20
Spent refinery clay added to waterproof Portland cement, by J. M. Evans	July 27, p. 31
Woodite clay for decolorizing lube oils; properties and application, by E. R. Lederer and E. W. Zublin	Aug. 31, p. 27
New rotary type plate improves vacuum fractionating column, by D. B. Keyes	Nov. 9, p. 22
Lachman zinc chloride treating process to be handled by Winkler-Koch	Nov. 9, p. 62
Chemistry, engineering, special alloys, bring rapid developments, by Arch L. Foster	Nov. 16, p. 26
Low chrome steels solve worst refinery problems, by George W. Johnson	Nov. 16, p. 29
Laboratory apparatus for continuous acid treatment of light oils, by E. W. Zublin	Nov. 16, p. 37
Modern alloys; their application to refinery problems, by Arch L. Foster, Article I	Nov. 16, p. 45
Article II	Dec. 7, p. 27
Increasing condenser efficiency through production of turbulent flow, by B. T. du Pont	Nov. 16, p. 74
Nitrobenzene extraction process makes highly paraffinic lubricants, by S. W. Ferris and W. F. Houghton	Nov. 30, p. 25
The estimation of tower temperatures by equilibrium vaporization data, by W. L. Nelson	Dec. 14, p. 25
Costs:	
Will coloring regular gasoline cut refining costs? by Arch L. Foster	Aug. 3, p. 16
Machinery robbing will prove costly, by William F. Lowe	Aug. 24, p. 25
Specifications (See also Detonation, Lubricants and Motor Fuels)	
New viscosity equivalents to be published for Engler, Redwood, Saybolt	Aug. 3, p. 34
Thermal valve nomograph for fuel oil, by D. S. Davis	Aug. 10, p. 31
Road oil specifications a problem; costs, by Dr. George M. Mullins, Part IV	Aug. 10, p. 25
S. O. Indiana announces Syntholube specifications	Sept. 7, p. 18
Road Oil Congress to talk standardizing road oil specifications	Sept. 7, p. 15
Useless road oil specifications elimination planned by Road Oil Congress, by Arch L. Foster	Oct. 19, p. 27
General Information:	
Refining continues active development, Dr. J. Bennett Hill says	Nov. 9, p. 27
Chemistry, engineering, special alloys bring rapid developments in refining, by Arch L. Foster	Nov. 16, p. 26
Sinclair refinery fires boilers with coke	Nov. 16, p. 72

N. P. N. Semi-Annual Author Index

July-December, 1932 Author — Title	Issue and Page Number
Barnard, D. P.—New synthetic oils, resistance to sludging, extreme long life	Nov. 16, p. 62
Bittner, E. F.—Methods of testing low pressure characteristics of oils and greases	Oct. 19, p. 31
Brown, George Granger—Motor fuel quality; a complex problem Part I	Dec. 14, p. 43
Part II	Dec. 21, p. 37
Byrne, P. J.—Commercial and technical progress	Oct. 5, p. 27
Chatfield, J. C.—Freedom lube plant cuts costs with mechanical conveyors	Sept. 14, p. 29
Davis, D. S.—Thermal value nomograph for fuel oil	Aug. 10, p. 31
Davis, G. H. B.—Effect of Paraflow on wax crystal structure	Dec. 28, p. 32
duPont, B. T.—Increasing condenser efficiency through production of turbulent flow	Nov. 16, p. 74
Eldridge, L. C.—Lubrication requirements of modern cars	Aug. 31, p. 45
Evans, J. M.—Spent refinery clay added to waterproof Portland cement	July 27, p. 31
Ferris, S. W.—Nitrobenzene extraction process makes highly paraffinic lubricants	Nov. 30, p. 25
Foster, Arch L.—Solution of natural gasoline problem requires volatility control	July 6, p. 27
Radical changes in design show new era in liquid phase cracking, Article I	July 27, p. 29
Solution of problems bringing vapor phase cracking forward, Part 2	Aug. 17, p. 26
Will coloring regular gasoline cut refining costs?	Aug. 10, p. 52
Research on experimental work on light oil treatment	Aug. 3, p. 16
Modern refining methods; lubricating oil manufacture, Article I	Aug. 31, p. 36
Article II	Sept. 14, p. 27
Article III	Sept. 28, p. 29
Modified knock test method meets less opposition among western refiners	Sept. 28, p. 25
Paper filtration solves oil clarification at Sinclair plant	Oct. 12, p. 30
Useless road oil specifications eliminated by Road Oil Congress	Oct. 19, p. 27
Many streams at Garber plant give flexibility	Oct. 26, p. 28
Process in vapor phase cracking and reforming	Nov. 16, p. 27
Chemistry, engineering, special alloys, bring rapid development	Nov. 16, p. 26
Modern alloys; their application to refinery problems Article I	Nov. 16, p. 45
Article II	Dec. 7, p. 27
New solvent methods of lube manufacture	Nov. 23, p. 22
Natural gasoline is mutual problem of refiner and manufacturer	Dec. 21, p. 26
Gohr, E. J.—Commercial and technical progress in Hydrogenation	Oct. 5, p. 27

July-December, 1932 Author — Title	Issue and Page Number
Gruse, W. A.—Low manifold temperature minimize gum trouble	Nov. 2, p. 22
Hanley, W. V.—Effect of increasing octane number on motor fuel performance	Sept. 21, p. 27
Haslam, R. T.—Commercial and technical progress in Hydrogenation	Oct. 5, p. 27
Hausman, Dr. J.—Asphalt manufacture from non-asphaltic crude	Sept. 7, p. 26
Hill, Dr. J. Bennett—Refining continues active development	Nov. 9, p. 27
Houghton, W. F.—Nitrobenzene extraction process makes highly paraffinic lubricants	Nov. 30, p. 25
Johnson, George W.—Low chrome steels solve worst refinery problems	Nov. 16, p. 29
Kessler, J. B. Aug.—Scientific development to revive chemical industries	Oct. 26, p. 20
Keyes, D. B.—New rotary type plate improves vacuum fractionating column	Nov. 9, p. 22
Lederer, E. R.—Woodite clay for decolorizing lubricating oils; properties and application	Aug. 31, p. 27
Lowe, William F.—Machinery robbing will prove costly	Aug. 24, p. 25
Maag, O. L.—Extreme pressure lubes; laboratory data on load-carrying capacity, corrosion, etc	Nov. 16, p. 53
Marley, S. P.—Low manifold temperature minimize gum trouble	Nov. 2, p. 22
Matthews, Ralph R.—Correct lubrication protects old auto investment	Sept. 21, p. 40
Mougey, H. C.—Gear changes await extreme pressure lubes	Nov. 16, p. 39
Mullins, Dr. George M.—Road oils; specifications a problem; costs, Part IV	Aug. 10, p. 25
Nelson, W. L.—The estimation of tower temperatures by equilibrium vaporization data	Dec. 14, p. 25
Raigorodsky, Paul M.—Vapor rectification type, vapor recovery plants, theory and practice	Aug. 24, p. 29
Rector, Norman K.—Vapor rectification type, vapor recovery plants, theory and practice	Aug. 24, p. 29
Ridenour, W. P.—Low manifold temperature minimize gum trouble	Nov. 2, p. 22
Rifenberick, W. L.—Rectification, application to straight-run gasoline	Aug. 3, p. 25
Samans, Walter—How $24,000 was saved replacing corroded bubble tower sections	Nov. 16, p. 25
Trusty, A. W.—Knock rating of gasolines may be estimated from analysis	Dec. 21, p. 29
Van den Berg, Gerrit—Still losses; high gas velocities build up losses	July 20, p. 26
Webb, H. C.—Keeping absorption oil clean	Aug. 17, p. 32
Wolf, H. R.—Gear changes await extreme pressure lubes	Nov. 16, p. 39
Zeiss, Carl—New German telescope permits study of inside tube walls	Nov. 16, p. 24
Zublin, E. W.—Woodite clay for decolorizing lubricating oils	Aug. 31, p. 27
Laboratory apparatus for continuous acid treatment of light oils	Nov. 16, p. 37